

**NEW**



## Human Body Temperature Monitoring System

State of the art infrared detector and electronic signal processing technologies have been combined to provide a high performance, compact thermal imaging camera system for screening and body temperature measurement purposes at an attractive price.

### FEATURES

- Complete system solution
- Miniature, continuous operation on-line thermal imagers
- Certified temperature calibration source
- Simple installation
- Remote control from a PC using proven, dedicated imaging software
- Extensive thermal image processing capability
- Alarm functions
- Information exchange with other applications using DDE and OLE, such as Microsoft Office or LabView

The need for fast, accurate determination of human body temperature has led to Land Instruments International - one of the world's leading specialists in infrared temperature measurement - developing a high-resolution thermal imaging camera system capable of discerning small differences in temperature.

The thermal imaging system provides a thermographic image of human body temperatures (typically the face) at a distance and comparing it with that of an extremely precise blackbody calibration source at high speed - 30 frames per second - to provide a highly accurate measurement of body temperature.

Thermal imaging is a fast non-intrusive, non-contact means of detecting temperature radiance differences. The Land thermal imaging system, utilising a certified calibrated source, provides unparallel accuracy compared to other imaging camera techniques.

With a typical detection distance of 3 metres, the system gives a field of view of 90 x 70cm from the thermal imager.

**LAND**

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Infrared Temperature Measurement

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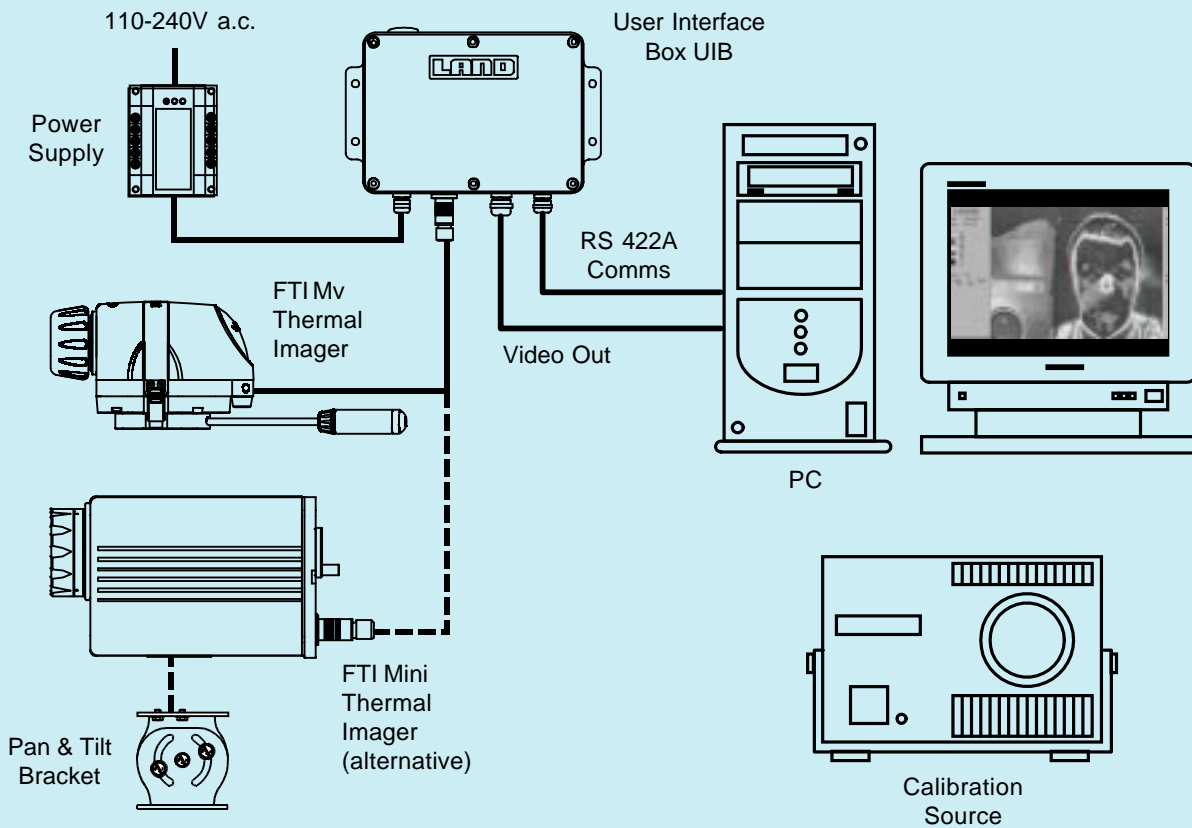
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## Typical schematic diagram showing choice of imaging cameras, mountings and accessories



## Typical Specification

Temperature measurement range:	-20 to 100°C/14 to 212°F
Detector array format:	160 x 120 pixels
Detector:	Uncooled Microbolometer FPA
Spectral response:	7 to 14µm
Frame frequency:	30Hz
Temperature resolution:	<0.12°C
Field of View:	17 x 12.8°
Minimum Focus:	450mm/17.8in
IFOV:	1.85mrad (540:1)
Power supply requirement:	110 to 240V a.c.
IP Rating:	To IP50
Interfaces:	Setup LCD port RS 422A serial communications - at distances up to 1km Video out - at distances up to 1km
Image processing software:	Continuous or still image display and acquisition with radiance measurement at points, areas, profiles, histograms or isotherms for alarm output. Five palettes are available to aid scene interpretation.
Operating temperature range:	0 to 55°C/32 to 131°F
Overall weight:	1.3kg/2.9lb (depending on imager type)



*Isotherm function showing hot spots at the set point*

For system customisation please contact Land Instruments International.